

Laboratory Environment Safety and Health Committee

MINUTES OF MEETING 04-06

September 28, 2004

DRAFT – Revision 0

Committee Members Present

N. Bernholc
R. Beuhler
R. Gill
T. Ginsberg
W. Glenn
W. Gunther (Acting Chairperson)
H. Kahnhauser
R. Lee
R. Travis* (Secretary)
P. Williams

(* non-voting)

Committee Members Absent

E. Lessard

Visitors

K. Kusche
V. Yakimenko
M. Zarcone

Agenda:

1. Review of the ATF Safety Assessment Document

Minutes of Meeting: Appended on pages [2](#) through [3](#).

ESH COMMITTEE MINUTES APPROVED:

W. Gunther
Acting LESH C Chairperson

DH50QR

Chairperson W. Gunther called this meeting of the Laboratory Environmental Safety and Health Committee (LESHC) to order on September 28, 2004 at 1:41 p.m.

1. Collider- Accelerator Department – Safety Assessment Document (SAD):

- 1.1. Acting Chairperson, W. Gunther invited M. Zarcone of the Physics Department to present Revision 2.00 of the Accelerator Test Facility Safety Assessment Document (SAD). (The presentation, the review material that was transmitted to the Committee and these Minutes are posted on the LESHc website: http://www.rhichome.bnl.gov/AGS/Accel/SND/laboratory_environemnt_safety_and_health_committee.htm.)
- 1.2. Mr. Zarcone and other members of the Physics Department made the following points during the course of the presentation and in response to specific Committee questions:
 - 1.2.1. The SAD had consisted of the 10/22/99 revision and four Unreviewed Safety Issues (USIs). This revision contained extensive references to the NSLS. The USIs are:
 - USI 1 – Radionuclide production in Soil from 60 MeV Electrons at the Accelerator Test Facility
 - USI 2 – Shielding Calculations and Design for the ATF H-Line System (See LESHc 02-01.)
 - USI 3 – Updating Safety Documents for the ATF Reflecting the Organizational Change to the Physics Department (See LESHc 02-01.)
 - USI 4 – Addition of a Chicane to the ATF H- Line
 - 1.2.2. This SAD update is administrative in nature. There are no technical changes associated with this revision. The updated SAD reflects the transfer of the facility to the Physics Department and also incorporates Unreviewed Safety Issues 1 through 4 into the body of the document or its appendices.
 - 1.2.3. Since the updated SAD it is based on the earlier (pre-SBMS version) of the document, on a chapter-by-chapter basis it does not follow the content and format requirements of the SBMS “Accelerator Safety Assessment Document Template”. However, taken in its entirety, Rev 2.00 of the SAD does conform to the content requirements of the Accelerator Safety Subject Area.
 - 1.2.4. ATF supporting documents have been updated to reflect the organizational change, including the Conduct of Operations (4/1/04), the Standard Operating Procedures (8/12/04), and the ATF Handbook (4/1/04). In addition, the laser SOPs have been updated per the Laser Safety Subject Area requirements.
 - 1.2.5. The Accelerator Safety Envelope requires an administrative revision to reflect the organizational change. This revision was on hold pending any comments from this meeting. The LESHc Secretary stated that this would be tracked as an ATS item.

- 1.2.6. An independent committee reviewed ATF operations in January 2004 (Reference 1). All areas for improvement have been incorporated, with the exception of conducting periodic emergency drills for training purposes.
 - 1.2.7. In response to a Committee question, the Physics Department committed to perform a confirmatory Radio Frequency (RF) radiation survey of the accessible areas in the ATF.
 - 1.2.8. The Physics Department was also requested to review the Static Magnetic Fields Subject Area
 - 1.2.9. At the conclusion of the formal presentation, the Committee conducted a page-by-page review of the SAD. In general, Committee questions were answered satisfactorily. There was some discussion concerning posting requirements for static magnetic fields and the decommissioning of the ATF. In response, the Physics Department agreed to:
 - Review the Static Magnetic Fields Subject Area and verify that the required postings are in place.
 - Augment SAD Section 6, "Decommissioning and Decontamination Plan" to indicate that the ATF is a low hazard facility. In addition to the standard industrial hazards, only lead (for shielding) and very low levels of activation are expected at ATF decommissioning.
- 1.3. The following motion was crafted by the Committee:
 - 1.3.1. Motion 1: The Committee recommends approval of the ATF Safety Assessment Document (Revision 2.00, 5/04), subject to the following conditions:
 - 1.3.1.1. Perform a confirmatory RF survey of the areas that are accessible to personnel during ATF operations.
 - 1.3.1.2. Review the Static Magnetic Fields Subject Area and verify the required postings are in place.
 - 1.3.1.3. Augment Section 6 of the SAD to state that the ATF is a low hazard facility with standard industrial hazards, lead for shielding, and very low levels of activation are expected at ATF decommissioning.
 - 1.3.2. Recommendation for Approval of the Motion was made by H. Kahnhauser.
 - 1.3.3. Seconded by R. Lee
 - 1.3.4. The motion was approved by vote of nine in favor, none opposed.
 2. The Meeting was adjourned at 2:50 p.m.